

Region 3 Fire Danger Outlook

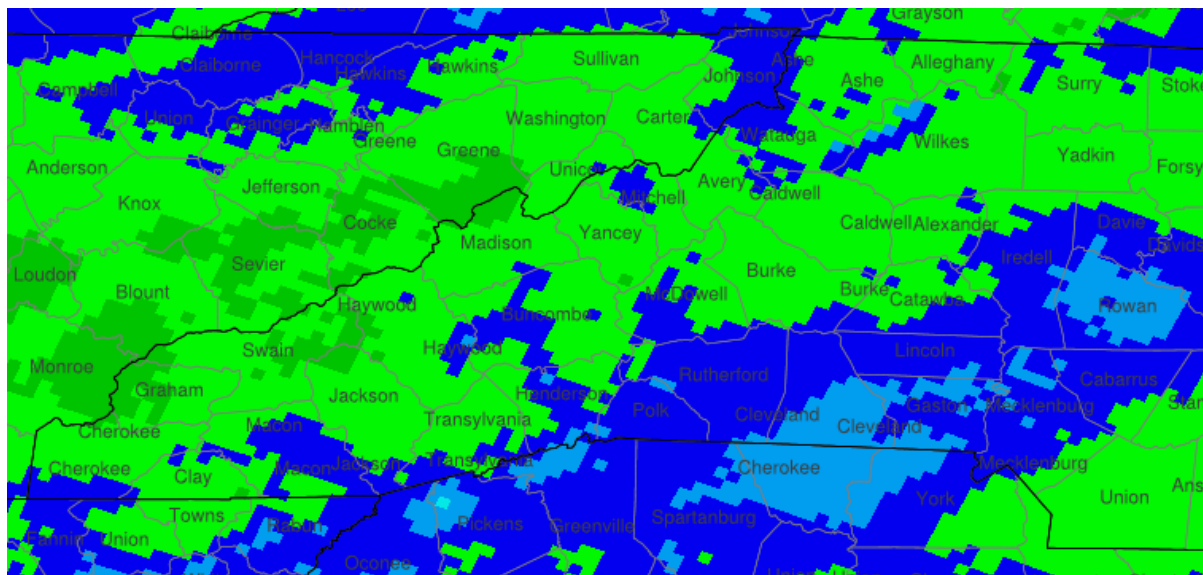
4/13/18

Cabe Speary, Fire Environment Forester, 252-325-3089

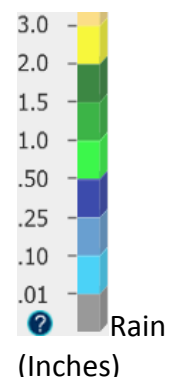
Weather Outlook

- High pressure will remain centered offshore and keep warm, southerly flow over the area today and into the weekend. A vigorous cold front will move through the area on Sunday bringing showers and thunderstorms, some of which could be severe with damaging wind and hail. Much cooler air will overspread the region behind the front on Monday with temps warming again through midweek. For April 20th-26th, there is a 33-50% chance of **above** normal precipitation.
- Minimum RH will generally be in the mid 50s tomorrow, climbing to the 60s-70s for Sunday, then back to the 50s-low 60s for Sunday. For the remainder of the period, expect 30-40% range.
- Winds will generally be out of the S at 7-12 MPH tomorrow and Sunday, with gusts to 25-30 MPH, especially on Sunday in and around thunderstorms. For Sunday, they will be switching to the S at 5-15 MPH. For the remainder of the period they will be 5-10 MPH, with slightly higher winds along the ridges. Mixing heights of 5,000-6,000 feet for tomorrow, with transport winds S at 20-25 MPH. For Sunday, mixing heights of 3,500-4,500 can be expected with transport winds S at 30-40 MPH.
- High temperatures will generally be in the mid 70s-low 80s tomorrow, dropping to low 60s to around 70 for Sunday. Expect mid-50s to mid-60s for Monday and Tuesday, before climbing into the low 60s to around 70 for the remainder of the period. Lows will in the 50s tonight and Saturday night, with 30s for the mountains and 40s for the piedmont for Sunday and Monday, with 40s all around for the remainder of the period. For April 20th-26th, there is a 40-50% chance of **below** normal temperatures.

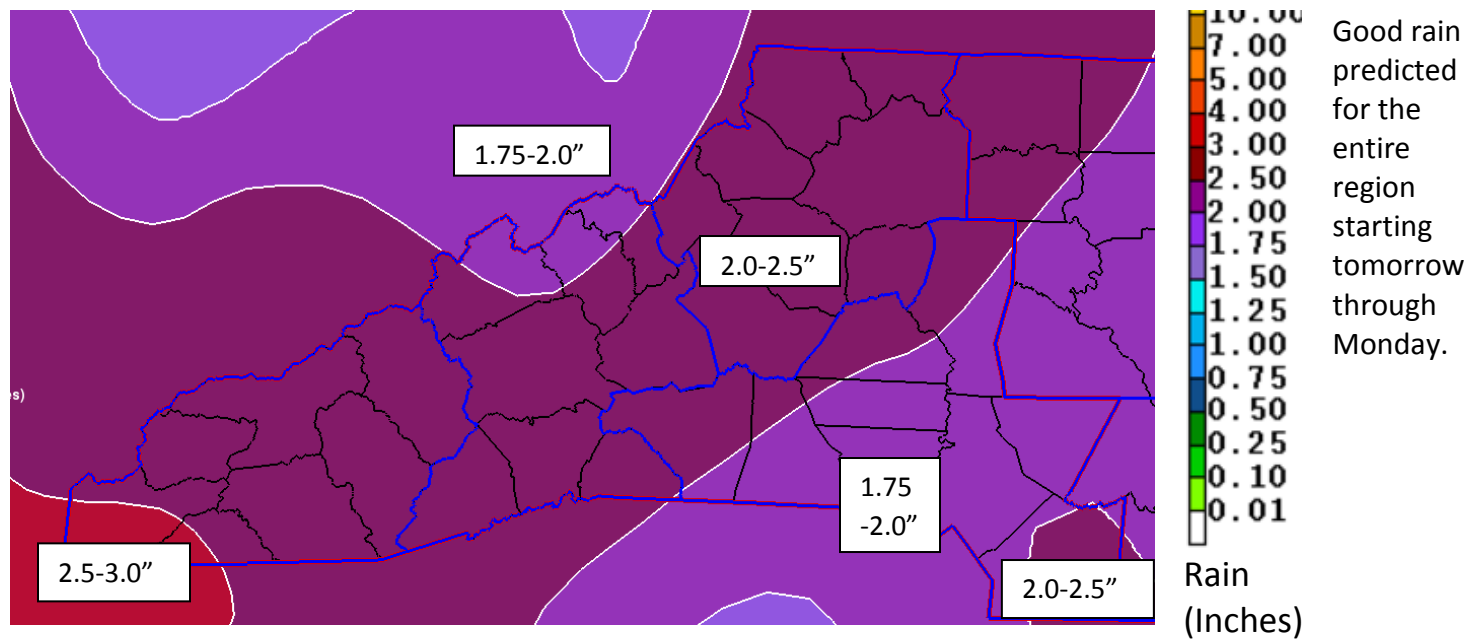
Precipitation Estimates for April 7th, 0800 to April 13th, 0800



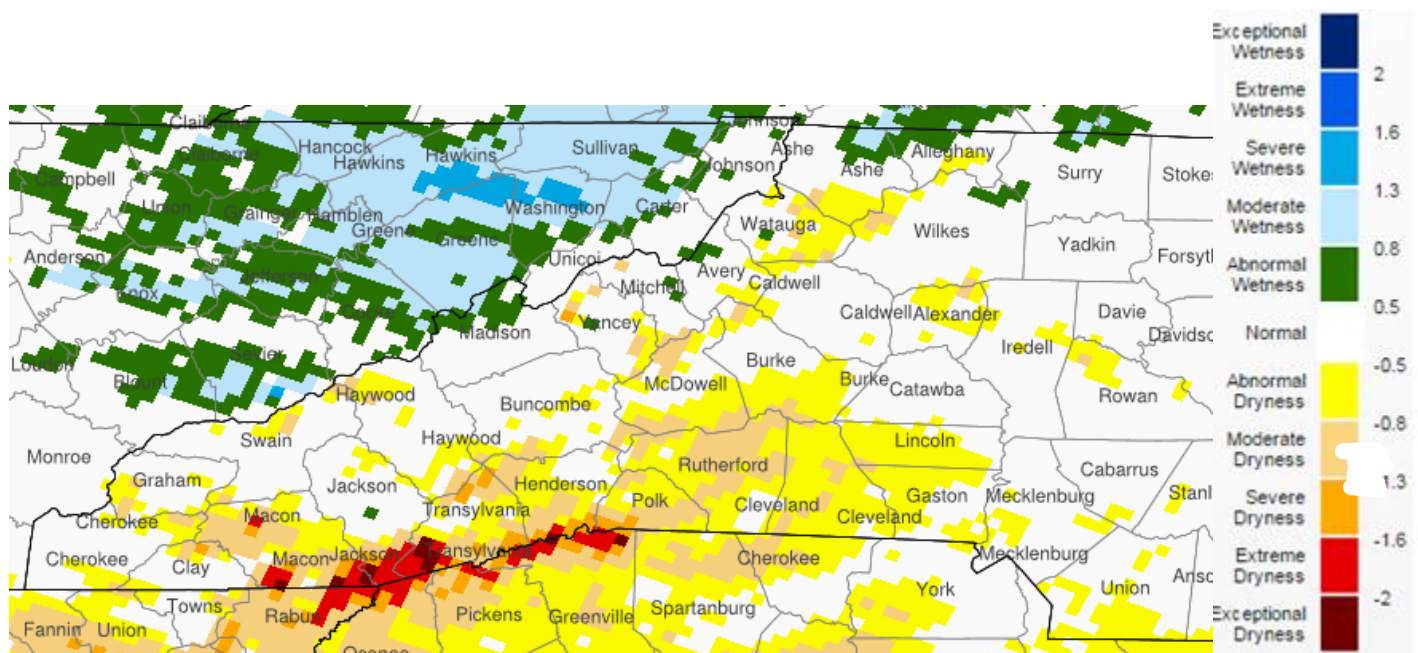
Most of D-12 got less than ½". Somewhat less than predicted for the whole region.



Forecast Precipitation, April 13, 2000-April 15, 2000

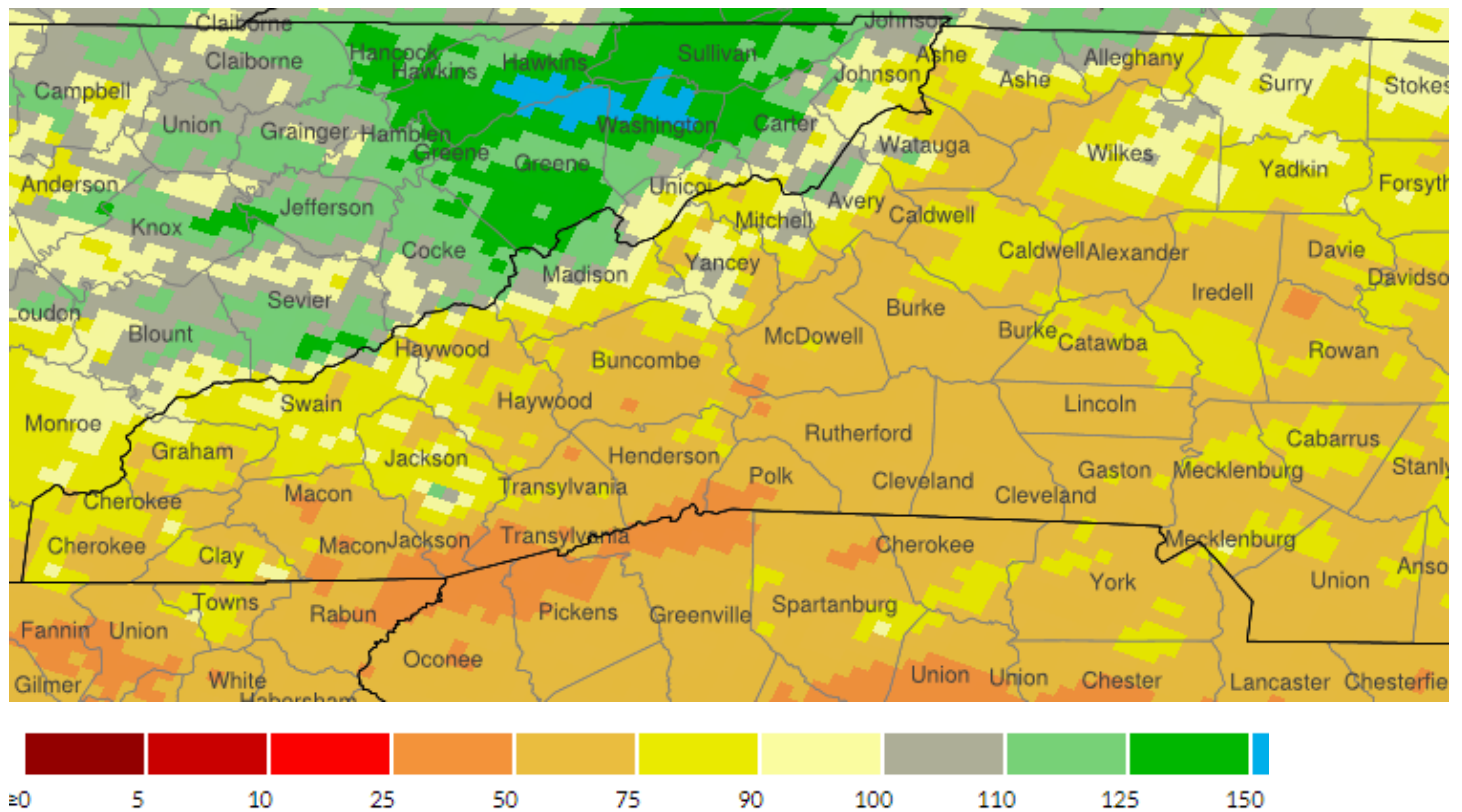


30 Day Standardized Precipitation Evapotranspiration Index (SPEI)

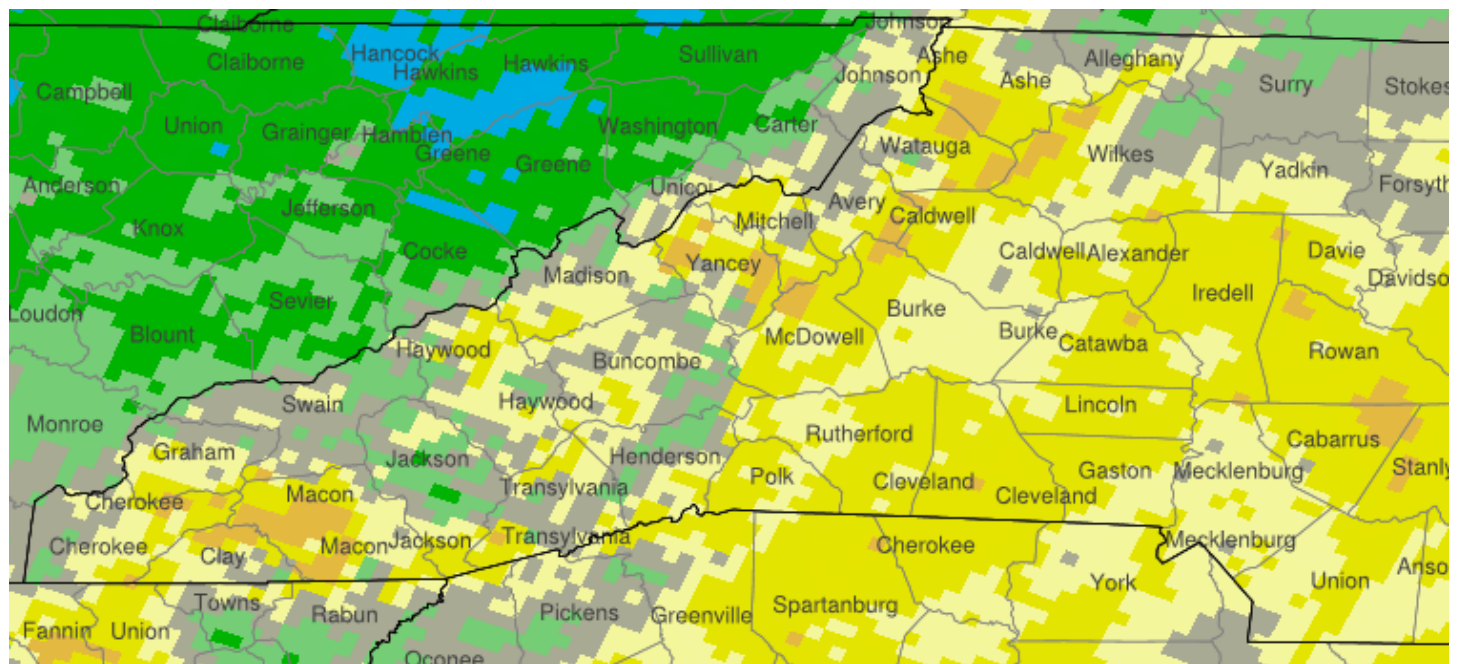


Some expansion of the dryer areas in the southern part of the region.

30 Day Percent of Normal Precipitation

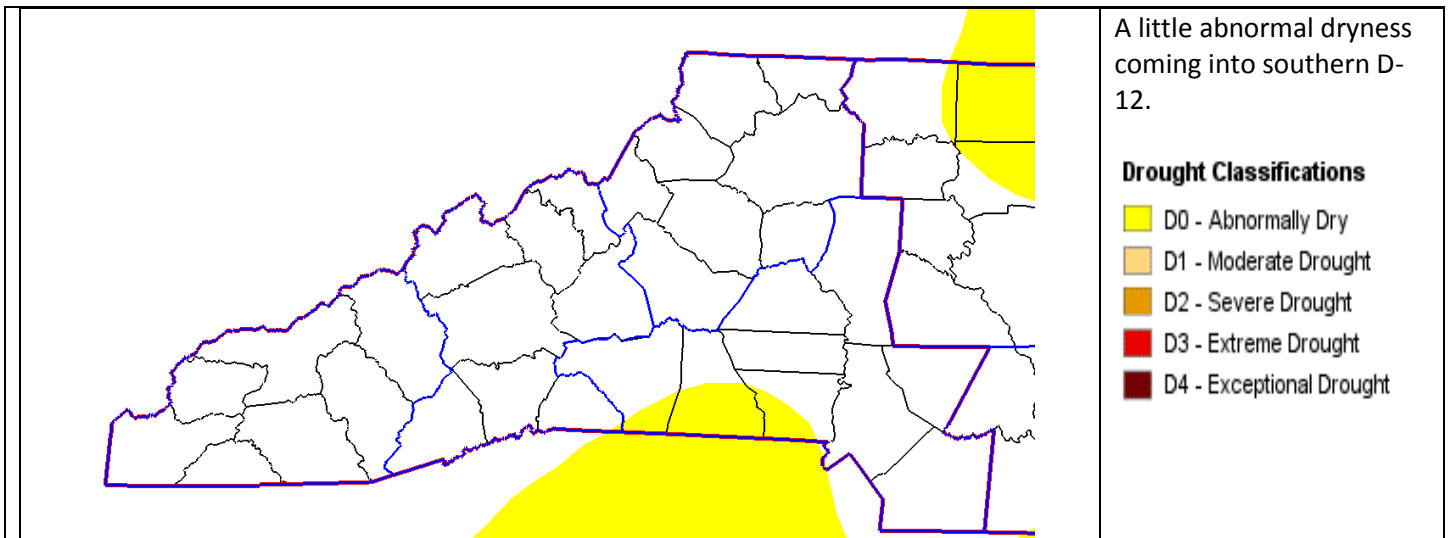


90 Day Percent of Normal Precipitation

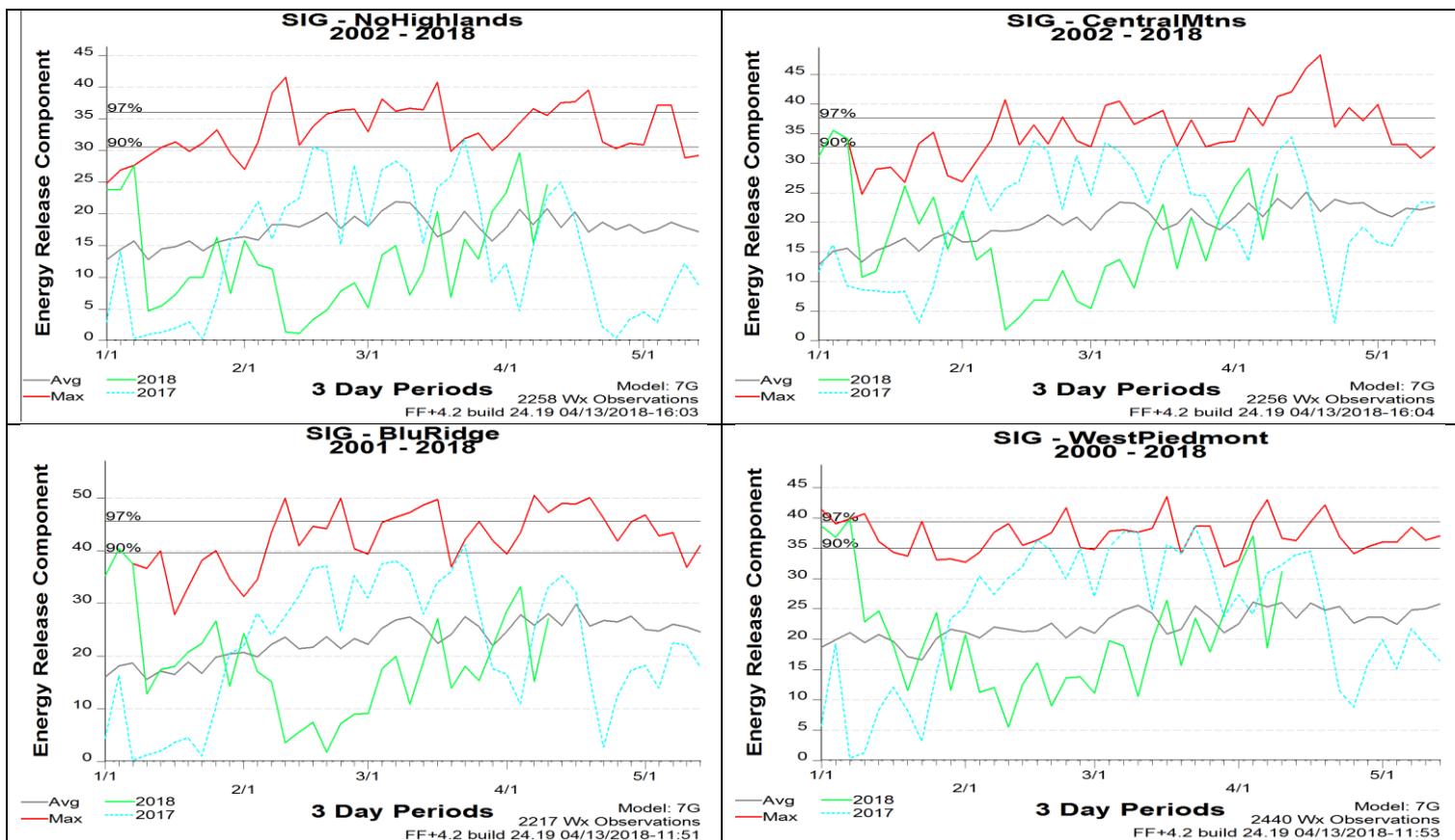


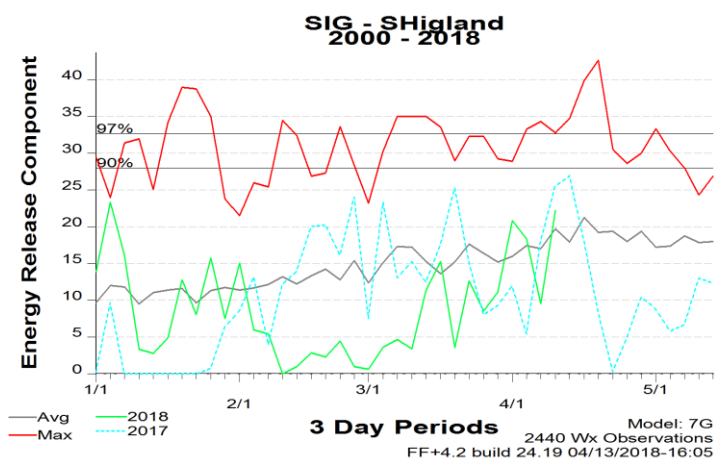
Most of the region is at 50% of normal or better. At these time scales, there is no real concern. Things look better at the 90 day. However, if deficits continue to mount through spring and early summer, larger fuel classes will become more available to burn more intensely.

Drought Map, as of April 10th, 2018



ERC Trends

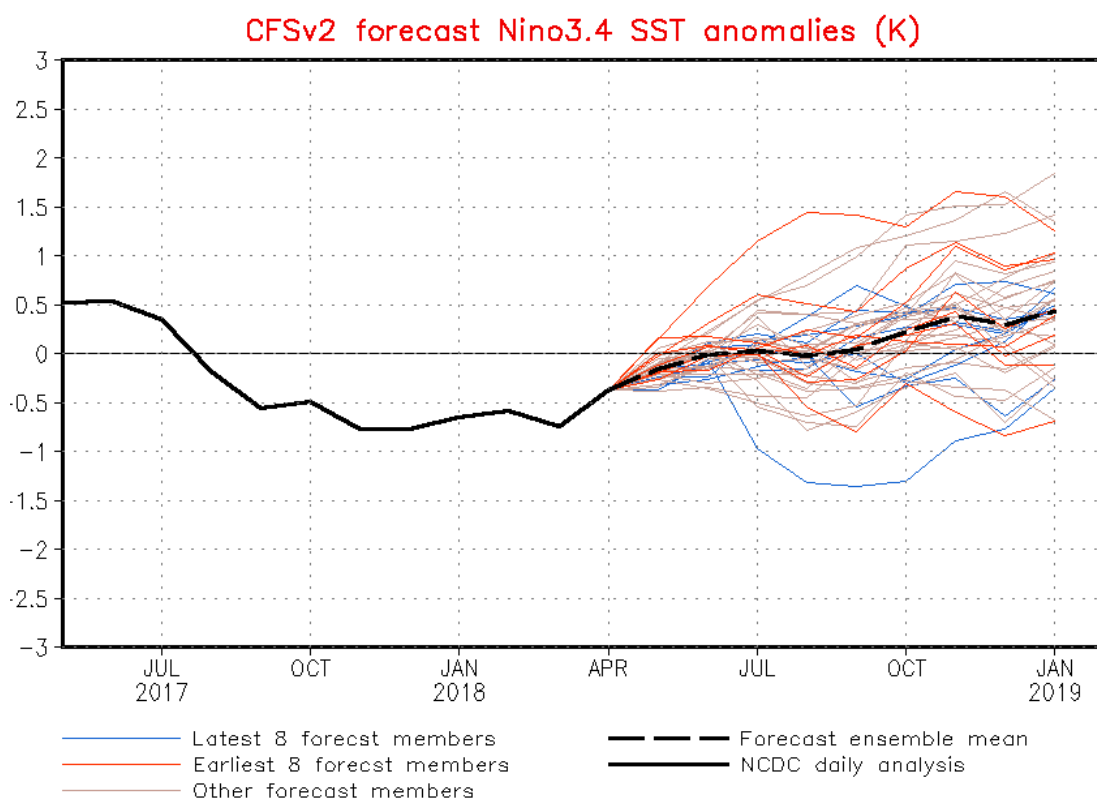




ERC still continuing a general trend upward. It should decrease Sunday, then inch back up early next week.

Little to no risk of significant fire potential through the period. DENSICA is Moderate for tomorrow, dropping to Low for the remainder of the period.

ENSO Trends



According to this graph, the move to ENSO neutral (less than $.5^{\circ}\text{C}$ anomaly in sea surface temperature at zone 3.4) has already occurred. However, this condition must remain in place for 3 months before neutral conditions will be declared. At least a few models are predicting a move back to marginal La Nina conditions from summer to early fall.